CLEAN VERSION OF EACH REPLACEMENT PARAGRAPH/SECTION/CLAIM AND INSTRUCTIONS FOR ENTRY

IN THE SPECIFICATION:

As a result of these procedures, the disease specific markers namely sugar uptake ABC transporter from permease protein Sinorhizobium melloti having a molecular weight of about 1623.8425 daltons and having a sequence identified as SEQ ID NO: 1, HP AC024778 having a molecular weight of about 1552 daltons and a sequence identified as SEQ ID NO: 2, related to Type II diabetes were found.

IN THE CLAIMS:

Claim 1. A biopolymer marker selected from the group having a sequence identified as SEQ ID NO: 1, SEQ ID NO: 2 or at least one analyte thereof useful in indicating at least one particular disease state.

Claim 18. A kit for diagnosing, determining risk-assessment, and identifying therapeutic avenues related to a disease state comprising:

at least one biochemical material which is capable of specifically binding with a biomolecule which includes at least one biopolymer marker selected from the group having a sequence identified as SEQ ID NO: 1, SEQ ID NO: 2 or at least one analyte thereof related to said disease state; and

means for determining binding between said biochemical material and said biomolecule;

whereby at least one analysis to determine a presence of a marker, analyte thereof, or a biochemical material specific thereto, is carried out on a sample.

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Claim 29. Polyclonal antibodies produced against a marker sequence ID selected from the group having a sequence identified as SEQ ID NO: 1, SEQ ID NO: 2 or at least one analyte thereof in at least one animal host.

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Claim 30. An antibody that specifically binds a biopolymer including a marker selected from the group having a sequence identified as SEQ ID NO: 1, SEQ ID NO: 2 or at least one analyte thereof.

Claim 33. A process for identifying therapeutic avenues related to a disease state comprising:

conducting an analysis as provided by the kit of claim 18; and

interacting with a biopolymer selected from the group having a sequence identified as SEQ ID NO: 1, SEQ ID NO: 2 or at least one analyte thereof;

whereby therapeutic avenues are developed.

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Claim 34. The process for identifying therapeutic avenues related to a disease state in accordance with claim 33, wherein said therapeutic avenues regulate the presence or absence of the biopolymer selected from the group having a sequence identified as SEQ ID NO: 1, SEQ ID NO: 2 or at least one analyte thereof.